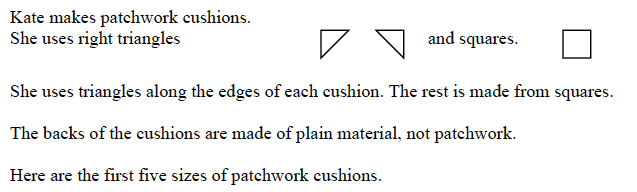
*CLASSROOM COPY - DO NO WRITE ON THIS!*

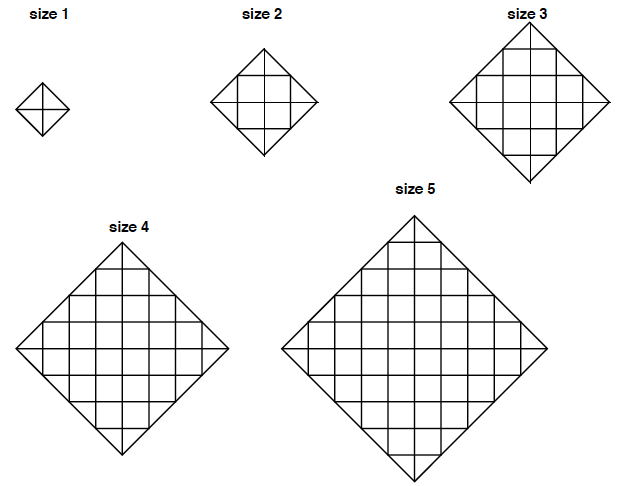
CW#74: Introduction to Quadratics

Honors Geometry

Monday, Feb 1

**Patchwork Cushions**





1. How many triangles will she need for a size 100 cushion?
2. If a cushion requires 104 triangles, what size is it?
3. How many squares will she need for a size 100 cushion?
4. If a cushion requires 612 squares, what size is it?

**Big Ideas**

1. Create a data table for the triangles, t(x).
2. Create a data table for the squares, s(x).
3. Graph both functions. Write an equation if possible.
4. What is the difference between the triangle pattern and the square pattern?

Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ PD: \_\_\_\_\_\_\_\_\_

HW#74: Introduction to Quadratics

Honors Geometry

Due: Tuesday, February 2nd

For the following problems, complete the data table and graph the function. Label the key features we discussed in class today.

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 1.   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | x | -3 | -2 | -1 | 0 | 1 | 2 | 3 | | f(x) |  |  |  |  |  |  |  |   http://www.mathnstuff.com/gif/9x9not.gif | 2.   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | x | -3 | -2 | -1 | 0 | 1 | 2 | 3 | | f(x) |  |  |  |  |  |  |  |   http://www.mathnstuff.com/gif/9x9not.gif |
| 3.   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | x | -3 | -2 | -1 | 0 | 1 | 2 | 3 | | f(x) |  |  |  |  |  |  |  |   http://www.mathnstuff.com/gif/9x9not.gif | 4.   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | x | -3 | -2 | -1 | 0 | 1 | 2 | 3 | | f(x) |  |  |  |  |  |  |  |   http://www.mathnstuff.com/gif/9x9not.gif |

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 5.   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | x | -3 | -2 | -1 | 0 | 1 | 2 | 3 | | f(x) |  |  |  |  |  |  |  |   http://www.mathnstuff.com/gif/9x9not.gif | 6.   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | x | -3 | -2 | -1 | 0 | 1 | 2 | 3 | | f(x) |  |  |  |  |  |  |  |   http://www.mathnstuff.com/gif/9x9not.gif |
| 7.   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | x | -3 | -2 | -1 | 0 | 1 | 2 | 3 | | f(x) |  |  |  |  |  |  |  |   http://www.mathnstuff.com/gif/9x9not.gif | 8.   |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | --- | | x | -3 | -2 | -1 | 0 | 1 | 2 | 3 | | f(x) |  |  |  |  |  |  |  |   http://www.mathnstuff.com/gif/9x9not.gif |